

Figure 1

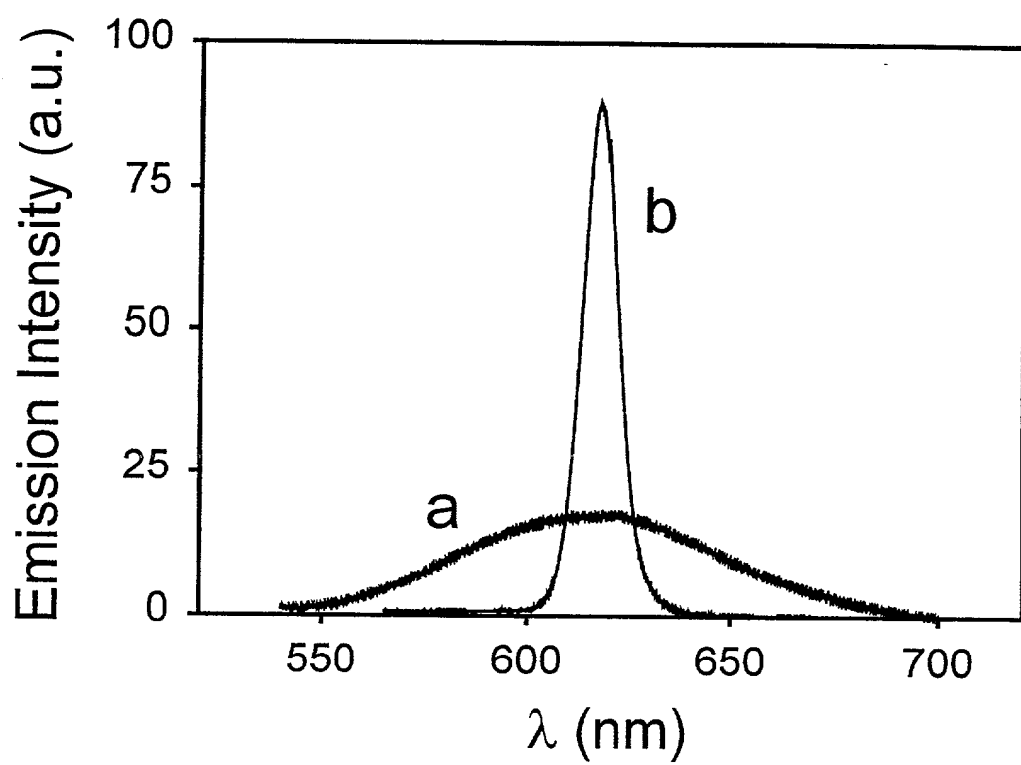


Figure 2

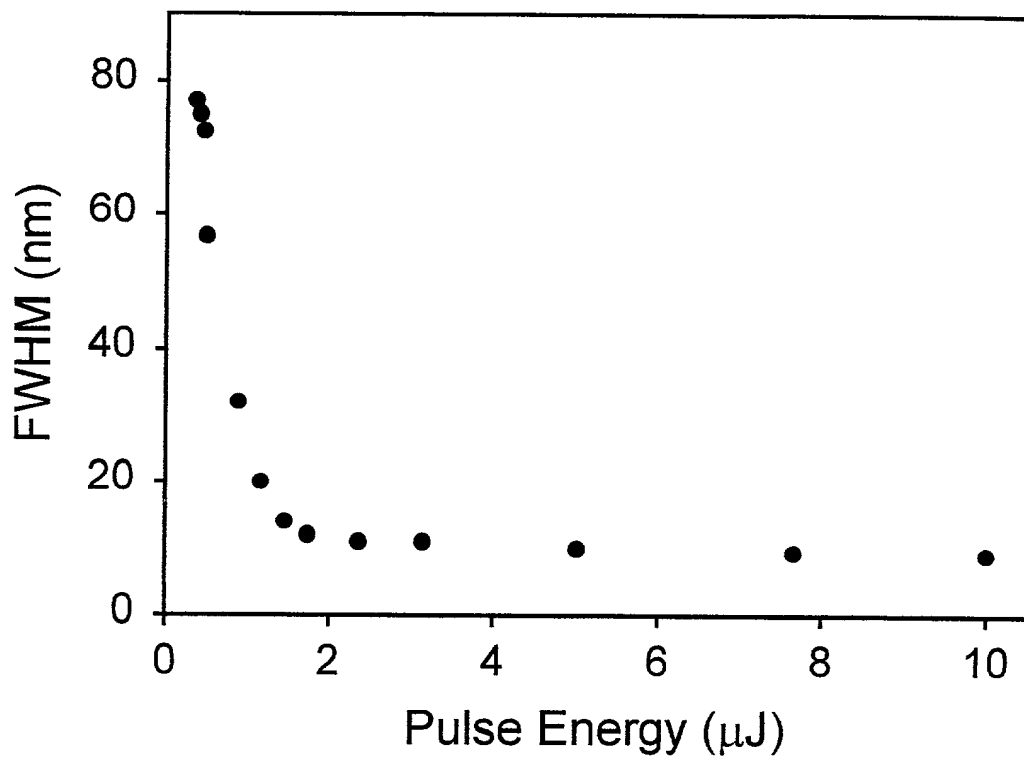


Figure 3

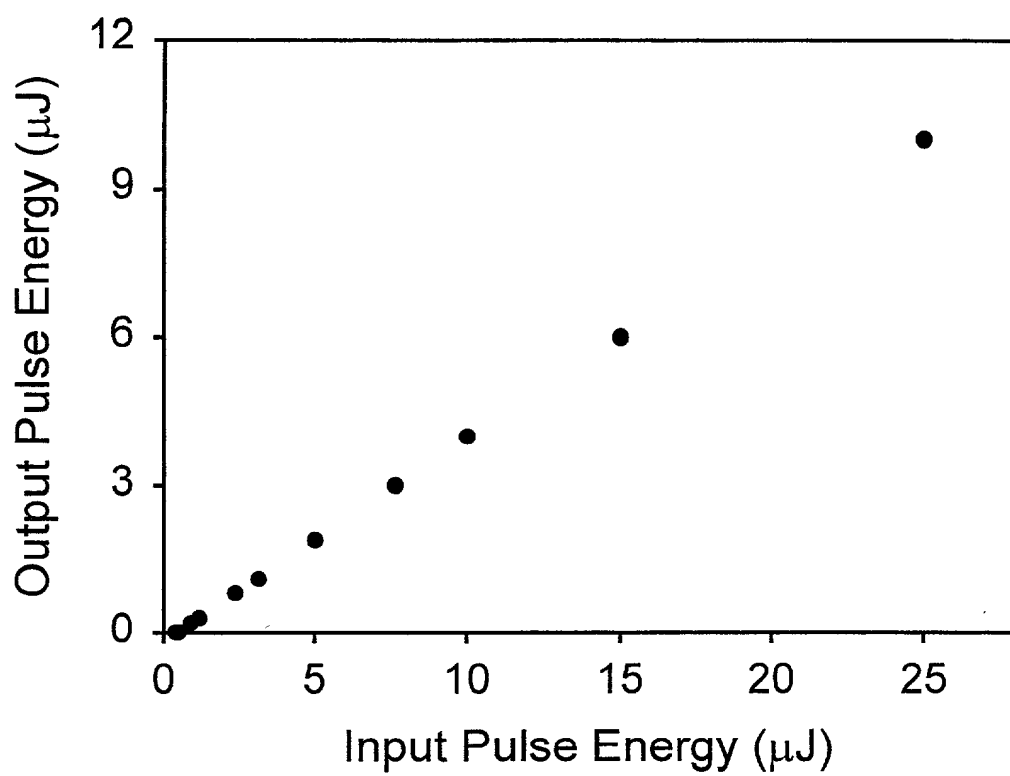


Figure 4

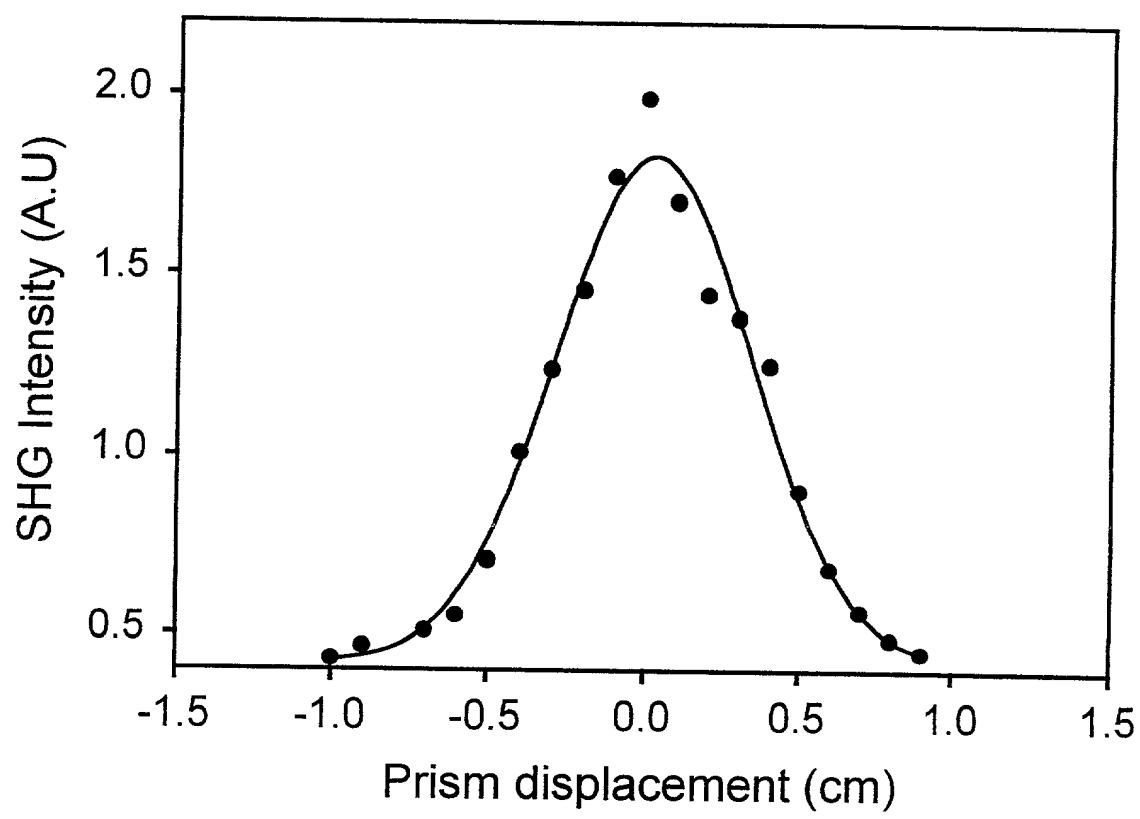


Figure 5

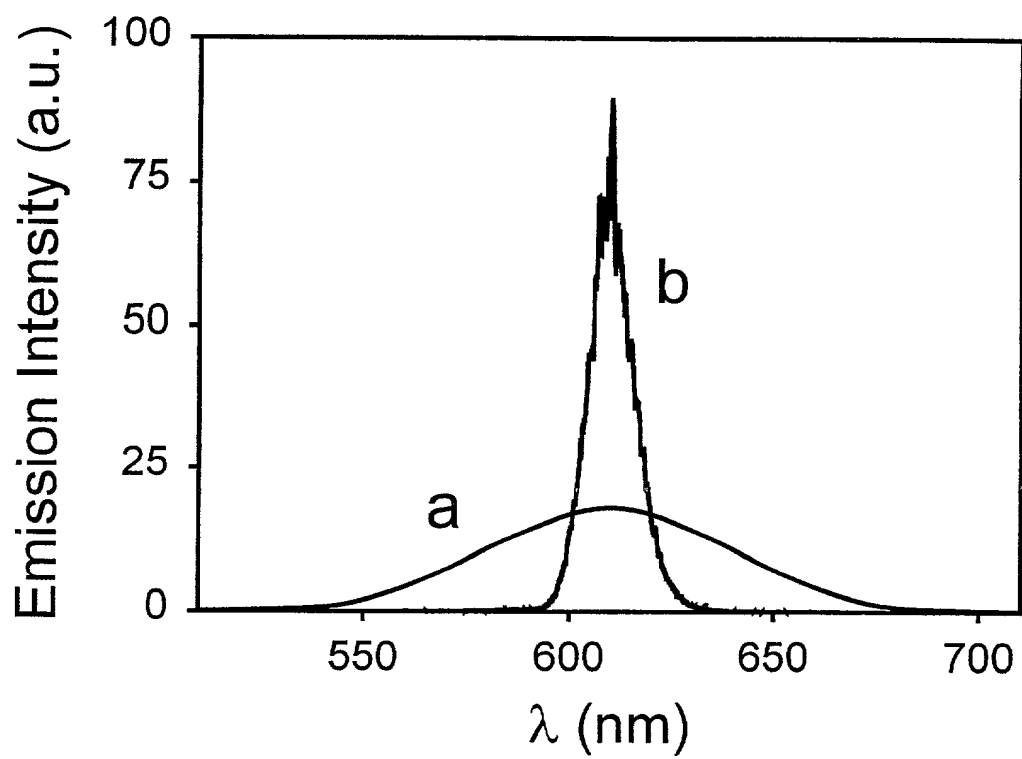


Figure 6

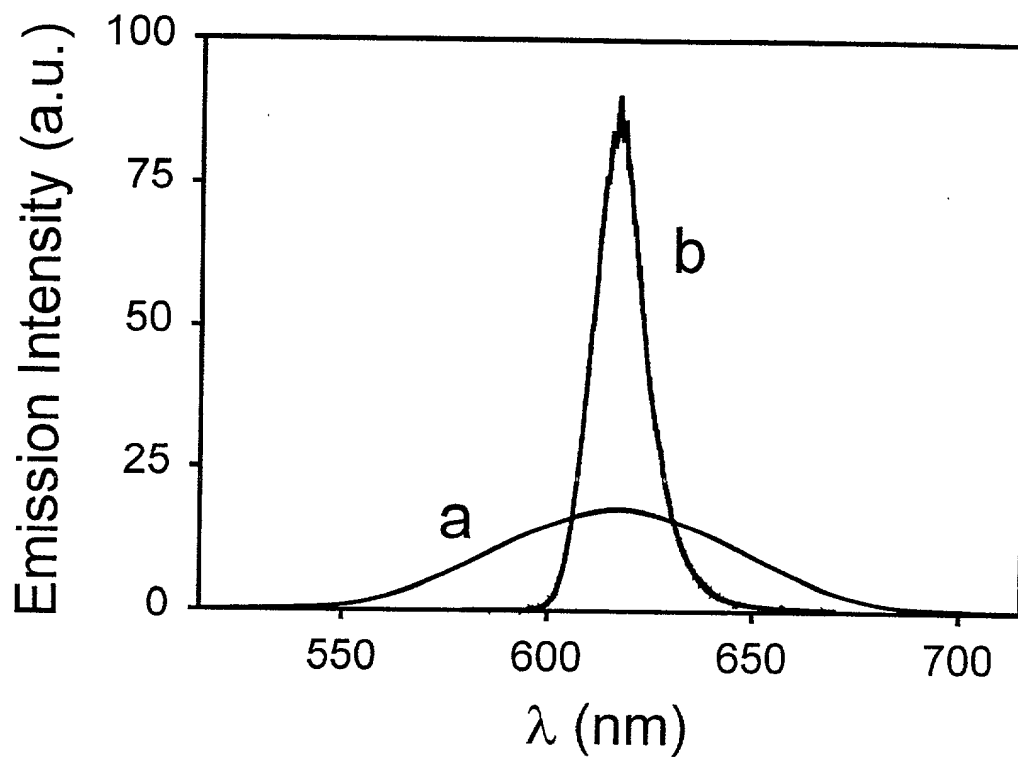


Figure 7

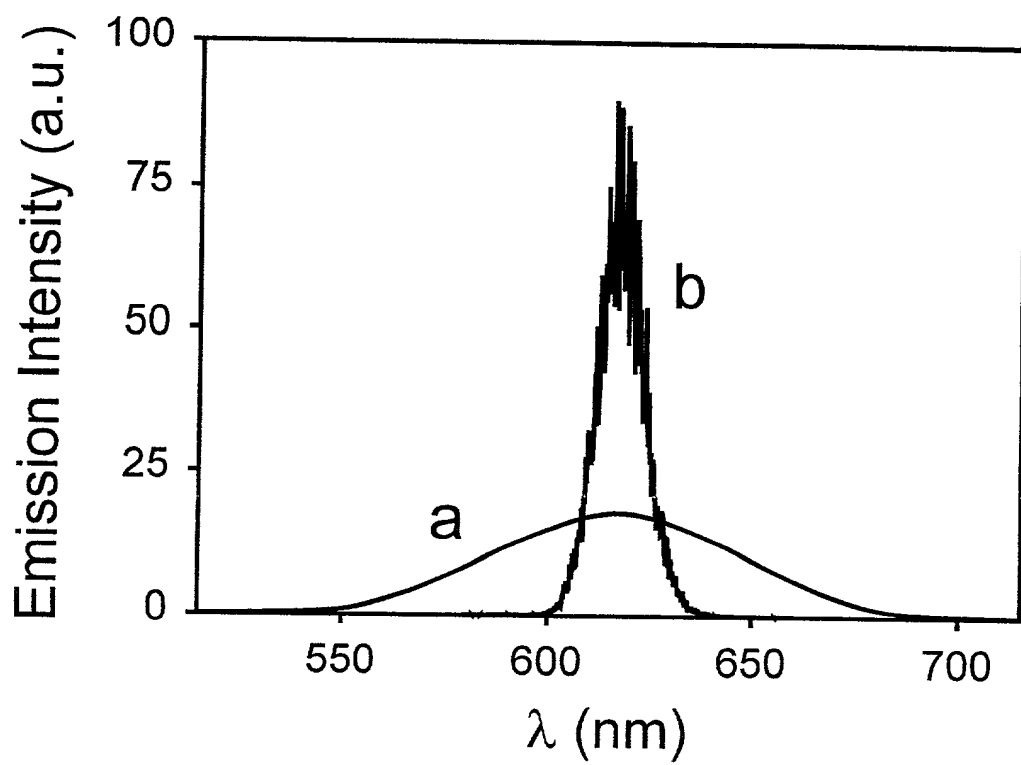


Figure 8

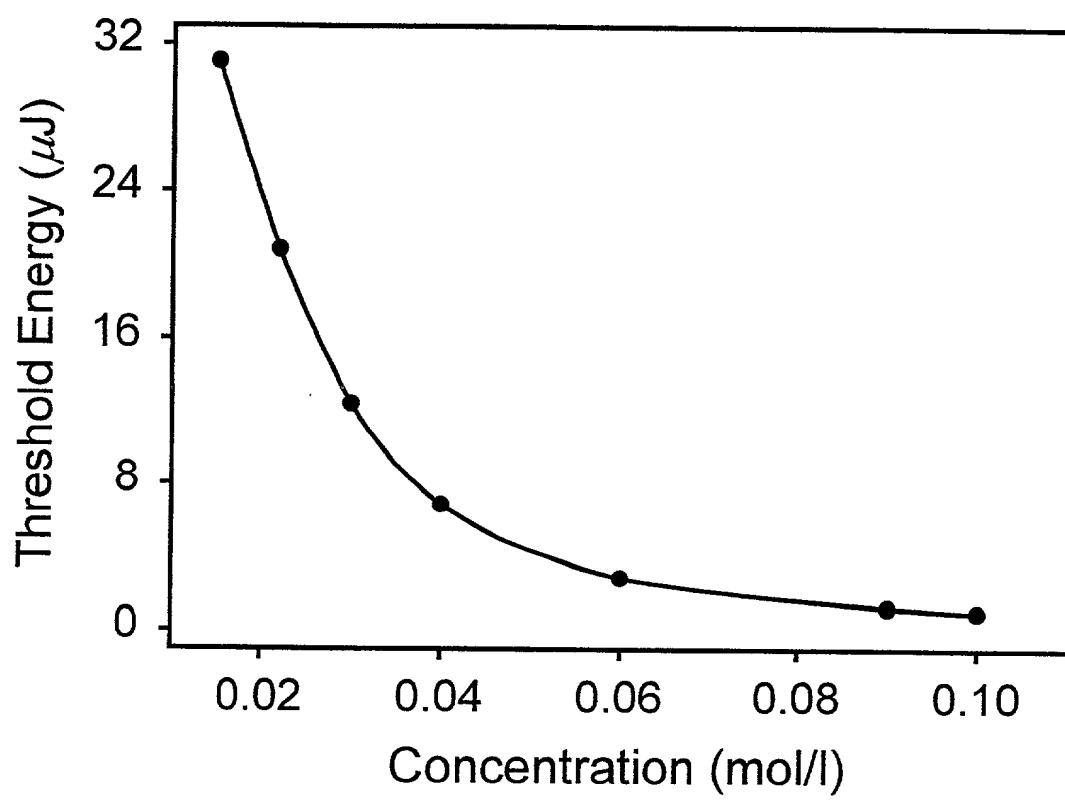


Figure 9

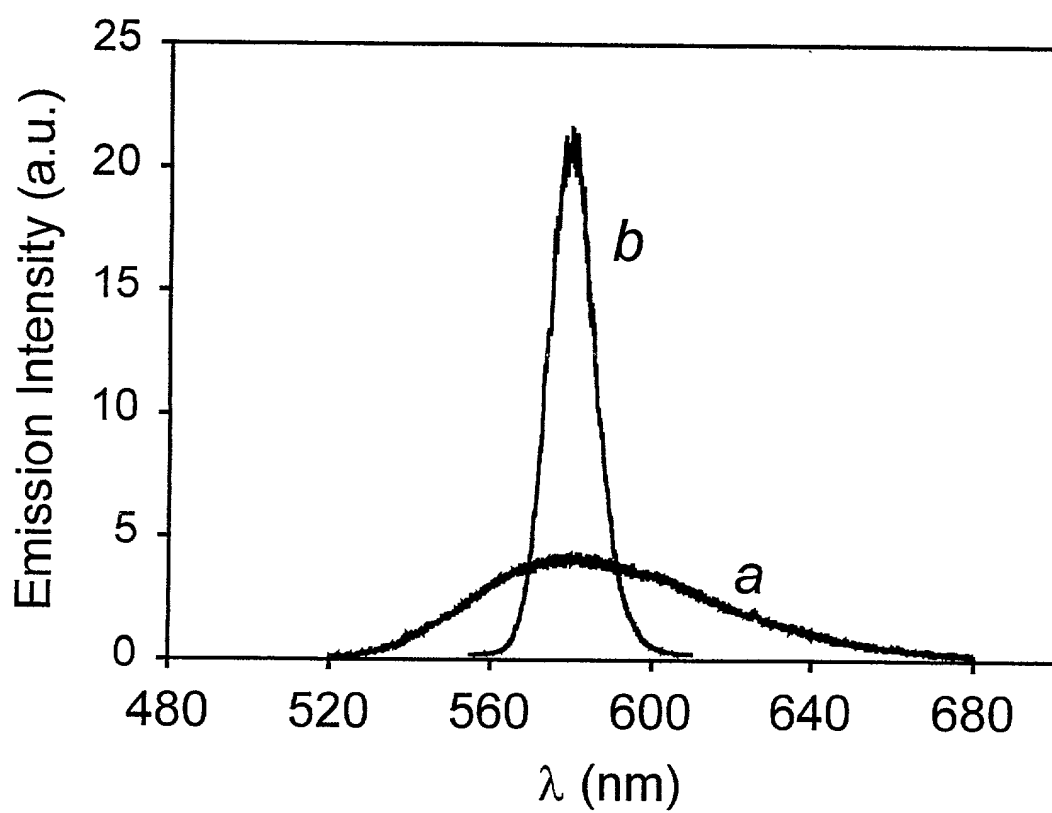


Figure 10

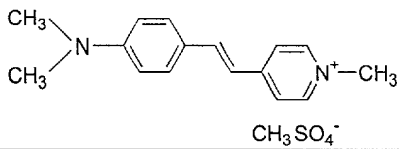
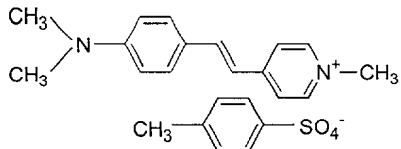
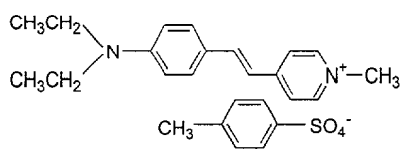
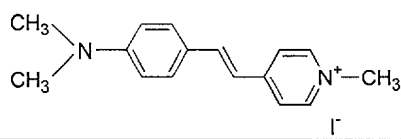
Name	Chemical Formula
Styrylpyridinium cyanine dye (SPCD)	 <chem>CN(C)c1ccc(/C=C/c2cc[n+](C)c2)cc1.[O-]S(=O)(=O)C</chem>
4'-dimethylamino- <i>N</i> -methyl-4-stilbazolium tosylate (DAST)	 <chem>CN(C)c1ccc(/C=C/c2cc[n+](C)c2)cc1.[O-]S(=O)(=O)c3ccc(C)cc3</chem>
4'-diethylamino- <i>N</i> -methyl-4-stilbazolium tosylate (DEST)	 <chem>CCN(CC)c1ccc(/C=C/c2cc[n+](C)c2)cc1.[O-]S(=O)(=O)c3ccc(C)cc3</chem>
4'-dimethylamino- <i>N</i> -methyl-4-stilbazolium iodide (DASPI)	 <chem>CN(C)c1ccc(/C=C/c2cc[n+](C)c2)cc1.[I-]</chem>

Figure 11

Material	Solvent	λ_{pump} (nm)	λ_{PL} (nm)		Energy Threshold ($\mu\text{J/pulse}$)	Final Linewidth (nm)	Conversion Efficiency (%)
DTTC ^a (ref. 1)	Methanol	694	798	>50	-	13-18	3
Coumarin 47 ^b (ref. 14)	Ethanol	355	451	>70	200	-	2.8
Coumarin 120 ^b (ref. 14)	Ethanol	355	439	72	200	-	2.3
TOP-PPV ^b (ref. 14)	Hexane	355	449	80-90	100	7	6.8
MEH-PPV ^b (ref. 13)	Xylene/ CHCl ₃	532	600	large	180	7	0.5
DCM ^a (10 ⁻³ mol/l)	Methanol	532	641	60-70	8	10	25
R6G ^a (10 ⁻³ mol/l)	Methanol	532	570	~70	1.5	10	30
SPCD ^a (0.1 mol/l)	Methanol	532	620	0.3	<1	10	40

^aMeasured without any external mirrors.

^bMeasured with an external resonator cavity.

Figure 12

Material	Solvent	λ_{pump} (nm)	λ_{PL} (nm)		Energy Threshold ($\mu\text{J}/\text{pulse}$)	Final Linewidth (nm)	Conversion Efficiency (%)
DTTC ^a (ref. 1)	Methanol	694	798	>50	-	13-18	3
Coumarin 47 ^b (ref. 14)	Ethanol	355	451	>70	200	-	2.8
Coumarin 120 ^b (ref. 14)	Ethanol	355	439	72	200	-	2.3
TOP-PPV ^b (ref. 14)	Hexane	355	449	80-90	100	7	6.8
MEH-PPV ^b (ref. 13)	Xylene/ CHCl ₃	532	600	large	180	7	0.5
DCM ^a (10 ⁻³ mol/l)	Methanol	532	641	60-70	8	10	25
R6G ^a (10 ⁻³ mol/l)	Methanol	532	570	~70	1.5	10	30
SPCD ^a (0.1 mol/l)	Methanol	532	620	0.3	<1	10	40

^aMeasured without any external mirrors.

^bMeasured with an external resonator cavity.

Figure 13